

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

ORDER NO. 88-034

AN ORDER AMENDING ORDER NO. 87-024

NPDES NO. CA 0029165

WASTE DISCHARGE REQUIREMENTS FOR:

Great Western Chemical Company
Milpitas
Santa Clara County

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. On April 15, 1987, the Regional Board adopted Order No. 87-024 prescribing waste discharge requirements for Great Western Chemical Company (hereinafter called the discharger).
2. The discharger seeks to remediate and to prevent the further off site migration of synthetic organic chemicals. Order No. 87-024 permits a discharge to surface waters from a groundwater treatment system which treats polluted groundwater extracted from near the discharger's site. The discharger has applied for issuance of waste discharge requirements and a permit to discharge waste from an off site treatment system separate from the system permitted by Order No. 87-024.
3. Application to add an additional treatment system in a separate location from the original system and discharge treated groundwater into a separate outfall into a different creek constitutes a substantive material change requiring that Order No. 87-024 be amended.
4. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives for Coyote Creek, South San Francisco Bay, and contiguous surface and groundwater.
5. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
6. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
7. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that this Board's Order No. 87-024 is amended to read as follows:

A. Findings 1, 5, 7, and 8 are revised as follows:

- "1. Great Western Chemical Company, a wholly owned subsidiary of McCall Oil and Chemical Corporation, (hereinafter called the discharger), by applications dated January 9, 1986 and December 8, 1987 has applied for issuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES)."
- "3. Subsurface investigations initiated in December 1982 detected various industrial solvents, including trichloroethylene, trichloroethane, tetrachloroethylene, dichloroethane, dichloroethylene, methylene chloride, vinyl chloride, toluene, xylenes, ketones, and alcohols, in both soils and groundwater at the facility. Additional sampling and evaluation of metals concentrations in the on-site and off-site system's influent and effluent will be performed to determine whether or not effluent limits for metals should be considered."
- "5. From the near site system, up to 40 gallons per minute (gpm) of groundwater containing synthetic organic chemicals will be treated by air stripping and carbon adsorption prior to discharge to the storm drain tributary to Berryessa Creek. From the off site system, up to 50 gallons per minute (gpm) of groundwater containing synthetic organic chemicals will be treated by air stripping prior to discharge to the storm drain tributary to Piedmont Creek, Berryessa Creek, Coyote Creek, and South San Francisco Bay. "
- "7. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives for Coyote Creek, South San Francisco Bay, and contiguous surface and groundwater."
- "8. The existing and potential beneficial uses of Coyote Creek, Berryessa Creek, and Piedmont Creek include:
- . Contact and Non-Contact Water Recreation
 - . Warm Fresh Water Habitat
 - . Cold Fresh Water Habitat
 - . Wildlife Habitat
 - . Preservation of Rare and Endangered Species
 - . Fish Migration
 - . Fish Spawning
 - . Recharge of Groundwater Aquifers"

B. Effluent Limitations are revised as follows:

A. Effluent Limitations

1. The effluent at the point of discharge to the storm drain shall not contain constituents in excess of the following limits:


<u>Constituent</u>	<u>Units</u>	<u>Instantaneous Maximum</u>
1,1,1 trichloroethane	ug/l	5
trichloroethylene		5
1,1 dichloroethane		5
1,2 dichloroethane		5
1,1 dichloroethylene		5
1,2 dichloroethylene		5
tetrachloroethylene		5
methylene chloride		5
vinyl chloride		5
chloroform		5
benzene		5
xlenes		5
toluenes		5
ethyl benzenes		5
Acetone		50
Methyl Ethyl Ketone		50
Methyl Isobutyl Ketone		50
Methanol		50
Ethanol		50
Propanol (*)		50
Butanol (*)		50
Pentanol (*)		50
Ethylene Glycol		50
Propylene Glycol		50
Chlorine (free chlorine plus chloramines)	mg/l	0.0

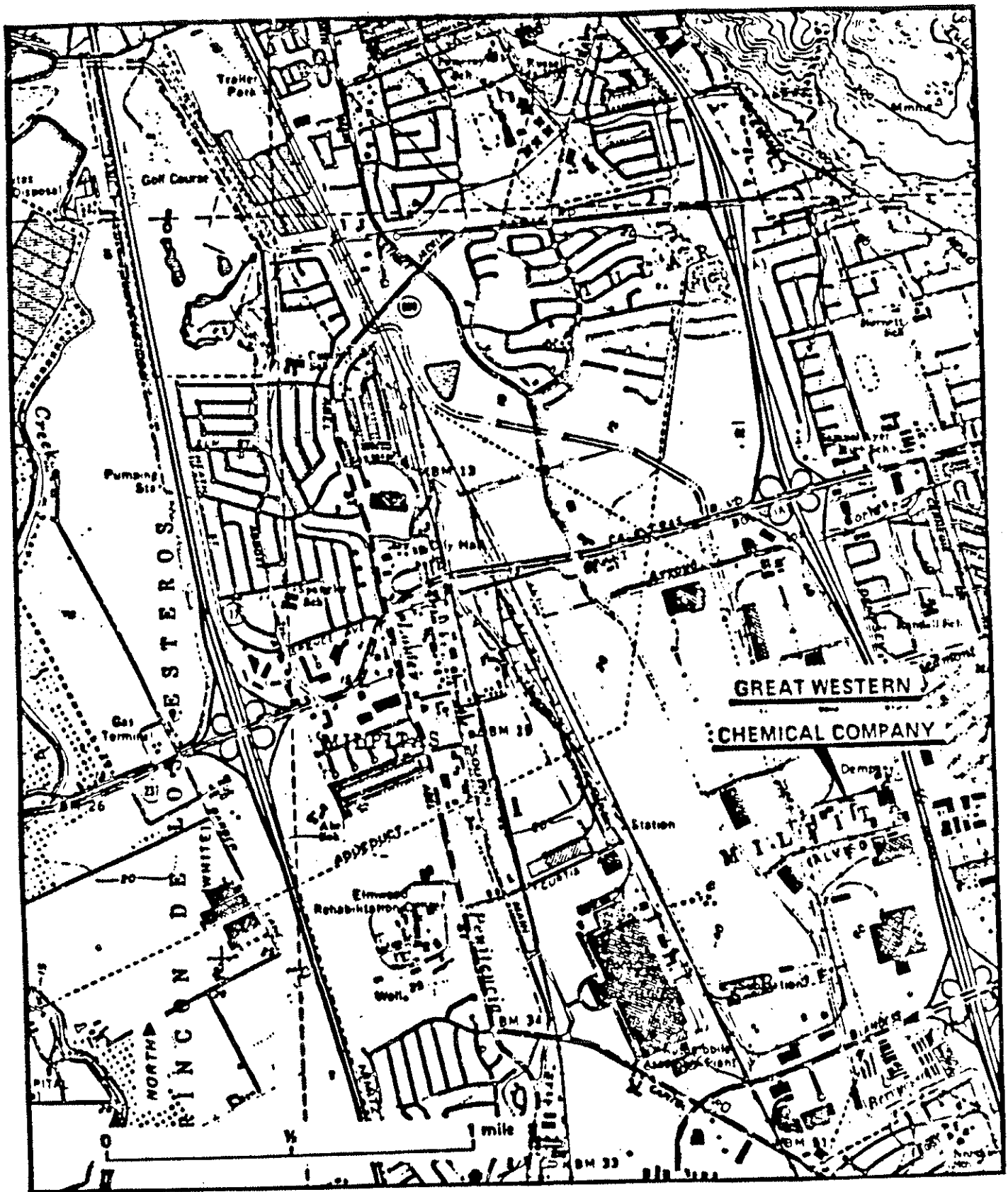
(*) Instantaneous maximum shall be 50 ug/l for any isomers or related compounds.

2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.
3. In any representative set of samples, the discharge of waste shall meet the following limit of quality:

TOXICITY: The survival of test fishes (rainbow trout) in 96 hour bioassays of the effluent as discharged shall be a median of 90% survival and a 90 percentile value of not less than 70% survival."

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on March 16, 1988.


 for ROGER B. JAMES
 Executive Officer



SITE LOCATION

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

GREAT WESTERN CHEMICAL COMPANY

MILPITAS, SANTA CLARA COUNTY

NPDES NO. 0029165

ORDER NO. 87-024 and 88-034

CONSISTS OF

PART A, Dec. 1986 as modified
by SBTD 1/23/87
(w/Appendices A-E)

and

PART B, adopted March 16, 1988

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

<u>Stations</u>	<u>Description</u>
I-1	At a point in the groundwater extraction/ treatment system immediately prior to treatment by on site system.
I-2	At a point in the groundwater extraction/ treatment system immediately prior to treatment by off site system.

B. EFFLUENT

<u>Stations</u>	<u>Description</u>
E-001	At a point in the groundwater extraction/ treatment system immediately following treatment at point of discharge into storm drain tributary to Berryessa Creek.
E-002	At a point in the groundwater extraction/ treatment system immediately following treatment at point of discharge into storm drain tributary to Piedmont Creek.

C. RECEIVING WATERS

<u>Stations</u>	<u>Description</u>
C-1	At a point in the Berryessa Creek at least 100 feet but no more than 200 feet down-stream from the storm drain point of discharge.
C-2	At a point in the Piedmont Creek at least 100 feet but no more than 200 feet down-stream from the storm drain point of discharge.

II. MISCELLANEOUS REPORTING NONE

III. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis shall be that given in Table I (attached).

IV. MODIFICATION OF PART A

All items of Self Monitoring Program Part A, dated December 1986 and as modified January 1987 shall be complied with except for the following:

A. Additions:

F.4.

"4. Total quarterly volume of spent activated carbon (in cubic feet) from each treatment unit and the disposal site location."

G.4.d.5) "Results from each required analysis and observation shall be submitted as lab originated data summary sheets in the quarterly self-monitoring reports. All chromatographic peaks for purgeable halocarbons and/or volatile organics shall be identified and quantified for all effluent samples. If previously unquantified peaks are identified in any effluent sample, then these peaks shall be confirmed based on analyses using chemical standards necessary to achieve proper identification and quantification. Results shall also be submitted for any additional analyses performed by the dischargers at the specific request of the Board for parameters for which effluent limits have been established and provided to the dischargers by the Board."

B. Deletions:

D.2.e.

D.2.g.

Standard Observation E.3., Standard Observation E.4.

G.4.e.1) Influent and Effluent Data Summary Reports shall be submitted only to the Regional Board Executive Officer, not to the EPA.

C. Modifications:

D.2.d.

"d. If ~~two consecutive~~ any sample of a constituent monitored on a weekly or monthly basis in a 30 day period exceeds the instantaneous maximum effluent limit for any parameter, ~~(or if the required sampling frequency is once per month and the monthly sample exceeds the limit)~~, the sampling frequency shall be increased to daily weekly with a 72 hour turnaround time until the additional sampling shows that the two most recent three (3) days 30-day moving average consecutive samples in compliance with the instantaneous maximum limit."

G.4. Self Monitoring Reports:

"Written reports shall be filed regularly for each calendar month quarter (unless specified otherwise) and filed no later than the thirtieth day of the following month. The reports shall be comprised of the following:"

G.4.b.

Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format shall be acceptable to the Executive Officer based on the guidance provided in APPENDIX A ~~will be prepared similar to the example shown in APPENDIX A (attached)~~. The discharger will prepare the format using those parameters and requirement limits for influent, effluent and receiving water constituents specified in the permit.

G.4.d.

Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Part B by date, time, type of sample, detection limit and station, signed by the laboratory director. The report format ~~will be prepared using the examples shown in APPENDIX B~~ shall be acceptable to the Executive Officer based on the guidance found in APPENDIX B.

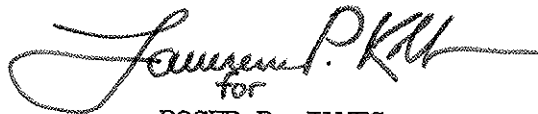
G.5 Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board in place of the end of year quarterly report, an annual report covering the previous calendar year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance

record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger and shall be acceptable to the Executive officer based on guidance using the examples shown in APPENDIX C (attached) and should be maintained and submitted with each regular self-monitoring report.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 87-024 and Order No. 88-034.
2. Revises and supercedes the Self-Monitoring Program adopted on April 15, 1987.
3. Was adopted by the Board on March 16, 1988.
4. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or upon request from the discharger, and revisions will be ordered by the Executive Officer or Regional Board.

A handwritten signature in cursive script, appearing to read "Roger B. James", with a horizontal line extending to the right. Below the signature, the word "for" is written in a small, simple font.

ROGER B. JAMES
Executive Officer

Attachment: Table I

TABLE 1

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	I-1	E-1	C-1	I-2	E-2	C-2
Type of Sample	G	G	G	G	G	G
Flow Rate (Gal/Day)	D	D		D	D	
pH (units)		M	Q		M	Q
Dissolved Oxygen (mg/l & % Saturation)		M	Q		M	Q
Temperature(°C)		M			M	
Fish Tox'y 96-hr Surv'l in undiluted waste		Y			Y	
Volatile Chlorinated Hydrocarbons (ug/l) (1)	M	M	Q	M	M	Q
Aromatics (ug/l) (2)	2/Y	2/Y	2/Y	2/Y	2/Y	2/Y
Alcohols, Ketones, & Glycols (ug/l) (3)	2/Y	2/Y	2/Y	2/Y	2/Y	2/Y
Un-ionized Ammonia (as N) (ug/l)		Q	Q		Q	Q
Chlorine (Free Chlorine & Chloramines) (mg/l)		*			*	

LEGEND FOR TABLE

G = grab sample
D = once each day
W = once each week
* = during chlorination

M = once each month
Q = quarterly, once in March,
June, September & December
2/Y = once in March & once in Sept.
2/M = twice a month

1. Defined as 1,1,1-trichloroethane, trichloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethylene, 1,2-dichloroethylene, tetrachloroethylene, methylene chloride, vinyl chloride, and chloroform.
2. Defined as benzene, toluene, xylenes, and ethyl benzene (all isomers).
3. Defined as methyl ethyl ketone, methyl isobutyl ketone, pentanol, ethylene glycol, propylene glycol, including all associated alcohol isomers and related compounds with attached alkyl groups.

10/10/08



EXISTING OUTFALL TO
PIEDMONT CREEK (C-2)

VISTA

AVENUE

485 VISTA

2-1/2" Ø EFFLUENT DRAIN
LINE TO EXISTING STORM
DRAIN (E-001)

TREATMENT SYSTEM
PROCESS EQUIPMENT
ON CONCRETE PAD

PARKING

EXISTING
CHAIN
LINK FENCE

12" Ø
SD
(EXISTING)

601 VISTA

2-1/2" Ø WATER PIPE LINE
(2) ELECTRICAL CONDUITS
FROM EXTRACTION WELLS

10" Ø

10" PERFORATED SD
(EXISTING)

8' HIGH CHAIN
LINK FENCE

BERRYESSA

CREEK

Figure 3 :

LOCATION PLAN
FOR GREAT WESTERN CHEMICAL CO.
OFFSITE TREATMENT SYSTEM SHOWING
EFFLUENT DRAINAGE TO OUTFALL

SCALE: 1" = 60'-0"

LANDSCAPED

Project No. 1050

LEVINE-FRICKE
CONSULTING ENGINEERS AND ARCHITECTS

001878P